PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

~	-	
- 6	^	۰
	·	

BAN, Toshimitsu Ban & Associates, Shinko Bldg. 1-9, Nishishinjuku 8-chome Shinjuku-ku, Tokyo 1600023 JAPON

Date of mailing (day/month/year) 28 September 2006 (28.09.2006)	
Applicant's or agent's file reference PCT205-5	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/002314	International filing date (day/month/year) 16 February 2005 (16.02.2005)
Applicant TORAY IN	DUSTRIES, INC. et al

l.	Transmittal	of the	translation	to	the :	applicant.
----	-------------	--------	-------------	----	-------	------------

patentability (Chapter I).		The International Bureau transmits herewith a copy of the English translation of the international preliminary report o patentability (Chapter I).
----------------------------	--	--

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT205-5	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/JP2005/002314	International filing date (day/month/year) 16 February 2005 (16.02.2005)	Priority date (day/month/year) 17 February 2004 (17.02.2004)			
International Patent Classification (8th See relevant information in Form P	International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant TORAY INDUSTRIES, INC.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications	s relating to the following items:				
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.		communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				

Date of issuance of this report 19 September 2006 (19.09.2006)

Authorized officer

The International Bureau of WIPO 34, chemin des Colombettes

PATENT COOPERATION TREATY

From		ONAL SEARCHI	NG AUTHOR	ITY		"ANO.
To:		JANUARY SEARCH	NO AOTHOR			PCT PCT
					_	RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
						(PCT Rule 43bis.1)
					Date of mailing (day/month/year)	
Applie	cant's or	agent's file referen	nce		FOR FURTHER A	ACTION
	T205	_				See paragraph 2 below
		pplication No.		International filing date (day/month/year)	Priority date (day/month/year)
		2005/002	314	16.02.2005	,	17.02.2004
Interna	ational P	atent Classificatio	n (IPC) or both	national classification and	d IPC	
					·	
Applic	ant					
TO	RAY	INDUSTRI	ES, INC	2.		
1.	This	opinion contains it	ndications relat	ing to the following items	:	
	\boxtimes	Box No. I	Basis of the	opinion		
	Ш	Box No. II	Priority			
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				ive step and industrial applicability		
		Box No. IV		y of invention		
	\boxtimes	Box No. V		atement under Rule 43bis. ; citations and explanation		novelty, inventive step or industrial ement
	Ц	Box No. VI	Certain docu	ments cited		
	片	Box No. VII		cts in the international app		
	Ш	Box No. VIII	Certain obse	rvations on the internation	nal application	
2.	FUR'	THER ACTION				
	Intern than t	national Preliminar his one to be the l	y Examining A IPEA and the	Authority ("IPEA") excep	t that this does not ap I the International Bur	Il be considered to be a written opinion of the ply where the applicant chooses an Authority other reau under Rule 66.1bis(b) that written opinions of
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
	For fu	rther options, see	Form PCT/IS	A/220.		
3.	For fu	orther details, see n	iotes to Form l	PCT/ISA/220.		
Magazi			TO A (ID		Andreis 4 -cc	
ivame a	nd maili	ng address of the	ISAJP		Authorized officer	
Faceimi	le No				Telephone No	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/002314

Bo	x No. I	Basis of this opinion
1.	With filed,	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.	type of material .
		a sequence listing
	[table(s) related to the sequence listing
	b.	format of material
	[in written format
	[in computer readable form
	c.	time of filing/furnishing
	[contained in the international application as filed.
	[filed together with the international application in computer readable form.
	[furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additi	onal comments:
		·

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/002314

Box	No. I	V Lack of unity of invention
I.		In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
		paid additional fees
		paid additional fees under protest
		not paid additional fees
2.	\boxtimes	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with
	\boxtimes	not complied with for the following reasons:
		The inventions in claims 1, 2, 24-42, 50, 51, 70-85 relate to an RTM molding method and device in which a resin injection line is formed by being divided into a plurality of segments. The inventions in claims 3-23, 52-69 relate to an RTM molding method and device in which an intermediate member having a resin flow path penetrating in the thickness direction is provided. The invention in claims 43-49 relate to an RTM molding method in which a layer directly below the top layer of a reinforcing fiber base material consists of a random mat layer. The above deficiency of unity became obvious after the fact (after examining the prior art).
4.	Cons	sequently, this opinion has been established in respect of the following parts of the international application:
	\boxtimes	all parts
		the parts relating to claims Nos.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/002314

ox No. V			ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
Statement				
Novelty	(N)	Claims	3-23, 33-49, 52-69, 79-85	YES
		Claims	1, 2, 24-32, 50, 51, 70-78	NO
Inventiv	ve step (IS)	Claims		YES
		Claims	1-85	NO
Industri	al applicability (IA)	Claims	1-85	YES
		Claims		_ NO
Citations ar	nd explanations:		· · · · · · · · · · · · · · · · · · ·	
2. Citations and explanations: Document 1: JP 2001-18230 A (Kabushiki Kaisha FJC), 23 January 2001, claims, drawings Document 2: US 5565162 A (COMPOSITE MANUFACTURING & RESEARCH INC.), 15 October 1996, drawings Document 3: JP 63-22618 A (Za Baddo Komupani), 30 January 1988, fig. 1 Document 4: JP 62-282912 A (Za Baddo Komupani), 08 December 1987, fig. 1 Document 5: JP 2003-39455 A (Toray Industries, Inc.), 13 February 2003, claims Document 6: JP 2003-53744 A (Toray Industries, Inc.) 26 February 2003, claims Document 7: JP 2002-347084 A (Esuipi Kabushiki Kaisha), 04 December 2002, fig. 1 Document 8: JP 2002-127220 A (Yoshino Kogyosho Co., Ltd.), 08 May 2002, fig. 2 Document 9: JP 55-123423 A (Nitto Boseki Co., Ltd.), 22 September 1980, claims, drawings Document 10: JP 9-272131 A (Toray Industries, Inc.), 21 October 1997, drawings Document 11: US 5052906 A (SEEMAN COMPOSITE SYSTEMS, INC.), 10 October 1991, claims, drawings The inventions of claims 1, 2, 24-32, 50, 51, and 70-78 do not possess novelty based on documents 1-6. Documents 1-6 describe an RTM molding method and device in which a resin injection line is formed by being divided into a plurality of segments. The inventions of claims 3, 7, 9, 10, 12, 13, 16-23, 52, 56, 58, 59, 61, 62, and 65-69				